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MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2016

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Monday, October 17, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Essay Questions.

1. Discuss pupillary pathway and its abnormalities. (15 marks)

2. Discuss orbital anatomy. (15 marks)

3. **Short answer questions:**

3A. Discuss anatomical structure of retina.

3B. Discuss dynamics of aqueous humour.

3C. Discuss optics of indirect ophthalmoscope.

3D. Discuss lens metabolism.

3E. Discuss ocular viscoelastic substances.

3F. Discuss modulators in glaucoma surgery.

3G. Discuss uses of contact lens.

3H. Discuss histopathological features of retinoblastoma.

3I. Discuss microbiological evaluation of corneal ulcer.

3J. Discuss treatment modalities of thyrotoxic exophthalmos.

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2016

SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Tuesday, October 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions.**

1. Discuss lagophthalmos and its management.

(15 marks)

2. Discuss Irido corneal endothelial syndrome.

(15 marks)

3. **Short answer questions:**

3A. Mention clinical features of keratoconus.

3B. Discuss lens subluxation.

3C. Discuss management of central Retinal vein occlusion

3D. Discuss Eales' disease.

3E. Discuss management of symblepharon.

3F. Discuss ocular manifestation of Acquired Immuno Deficiency Syndrome.

3G. Discuss anterior ischaemic optic neuropathy.

3H. Discuss types of orbitotomy.

3I. Discuss band keratopathy.

3J. Discuss ophthalmia neonatorum.

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2016

SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY OF EYE AND RELATED TOPICS

Wednesday, October 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Essay Questions:

1. Discuss Intra corneal stromal rings. (15 marks)
2. Discuss management of dropped nucleus during phacoemulsification. (15 marks)

3. Short answer questions:

- 3A. Discuss storage and preservation of corneal tissue for keratoplasty.
 - 3B. Discuss orbital prosthesis.
 - 3C. Outline astigmatic correction procedures.
 - 3D. Discuss Toxic Anterior Segment Syndrome
 - 3E. Outline treatment modalities of Age related macular degeneration.
 - 3F. How do you manage a case of post operative endophthalmitis on 2nd day?
 - 3G. How do you manage a case of squamous cell carcinoma of lid margin measuring 10 mm?
 - 3H. Discuss cyclodestructive procedures.
 - 3I. Discuss Harada- ito procedure.
 - 3J. Discuss radiotherapy of retinoblastoma.
- (7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2016

SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Thursday, October 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Essay Questions:

1. Discuss clinical features and management of Age related macular degeneration. (15 marks)
2. Discuss National programme for prevention of blindness. (15 marks)
3. Write short notes on:
 - 3A. Discuss methods of evaluation of optic disc.
 - 3B. Discuss optics and use of multifocal Intra Ocular Lens.
 - 3C. Discuss various methods of flap creation for Laser In-situ keratomileusis
 - 3D. Discuss diagnostic features of glaucoma in automated perimetry.
 - 3E. Discuss recent advances in laser treatment for diabetic retinopathy.
 - 3F. Discuss recent advances in Dacryocystorhinostomy surgery.
 - 3G. Discuss management of small pupil during phaco.
 - 3H. Discuss A – Scan Biometry for post operative emmetropia.
 - 3I. Discuss toric Intra ocular lens.
 - 3J. Discuss techniques of capsulorhexis. (7 marks × 10 = 70 marks)

